QC ABSTRACT

NAME OF WORK: Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100-150cum	136.71	12	12
9	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-100 cum	32.79	8	8
10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-05-28-19** **Date: 23-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-05-28-19** **Date: 21-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	22-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-28-19** **Date: 23-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-04-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-28-19** **Date: 23-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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Bruhath Bengaluru Mahanagara Palike

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-05-28-19** **Date: 23-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-05-28-19** **Date: 23-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-28-19** **Date: 23-04-22**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-04-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-04-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-05-28-19** **Date: 23-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-05-28-19** **Date: 23-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	22-04-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-05-28-19** **Date: 06-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-05-22
Sample Type /Size	:	Precast Cover Slab-100mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	01/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-05-28-19** **Date: 06-05-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-05-22
Sample Type /Size	:	Precast Cover Slab-250mm
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	01/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.02	250.42	3.116	31416	685.7	21.8	20.3	25.4
2	Cover Slab-2	200.02	250.51	3.122	31416	676.9	21.5	20.0	25.0
3	Cover Slab-3	200.04	250.54	3.118	31423	681.1	21.7	20.2	25.2

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	149.45 X 149.34 X 149.71	22319	8.556	411.9	18.5	18.5
2	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	151.83 X 151.30 X 150.37	22973	8.104	418.8	18.2	
3	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	151.87 X 151.70 X 150.45	23038	8.469	430.8	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 23/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	149.75 X 149.24 X 149.17	22348	8.655	533.5	23.9	23.1
2	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	150.46 X 151.57 X 151.39	22806	8.262	507.5	22.3	
3	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	150.91 X 150.69 X 149.23	22742	8.238	529.9	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	151.26 X 150.81 X 150.40	22811	8.716	418.7	18.4	18.4
2	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	151.44 X 150.66 X 150.90	22817	8.781	418.4	18.3	
3	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	151.51 X 151.26 X 151.71	22918	8.857	421.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-28-19** **Date: 23/05/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-22
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	149.31 X 150.55 X 150.67	22478	8.531	528.5	23.5	22.8
2	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	150.80 X 151.88 X 149.78	22904	8.487	504.3	22.0	
3	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	150.44 X 150.74 X 151.91	22677	8.843	521.9	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	149.41 X 151.07 X 149.86	22571	9.081	418.0	18.5	18.5
2	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	151.00 X 151.76 X 151.02	22916	8.460	414.7	18.1	
3	Drain Bottom Slab Concrete	M20	25/04/2022	02/05/2022	149.83 X 149.73 X 149.10	22435	8.229	421.8	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 23/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	149.21 X 149.42 X 149.82	22296	8.510	521.1	23.4	23.2
2	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	149.44 X 149.53 X 151.11	22346	8.472	503.5	22.5	
3	Drain Bottom Slab Concrete	M20	25/04/2022	23/05/2022	151.03 X 149.27 X 150.36	22544	8.891	534.3	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 04/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-04-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	151.76 X 151.46 X 151.34	22986	8.794	418.0	18.2	18.2
2	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	150.35 X 151.55 X 149.23	22785	8.233	419.3	18.4	
3	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	149.01 X 150.63 X 149.23	22446	9.005	405.1	18.0	

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-28-19** **Date: 24/05/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-04-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	150.96 X 150.87 X 149.99	22776	8.310	527.8	23.2	22.8
2	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	151.71 X 151.47 X 149.06	22980	8.598	506.6	22.0	
3	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	149.96 X 151.84 X 149.90	22770	8.853	530.8	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 04/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-04-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	149.55 X 149.04 X 150.05	22289	9.046	411.5	18.5	18.2
2	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	150.43 X 150.83 X 150.07	22690	8.531	412.1	18.2	
3	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	151.16 X 149.66 X 151.41	22622	8.975	409.2	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

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Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-04-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	150.99 X 151.97 X 151.75	22947	9.086	528.0	23.0	23.1
2	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	149.79 X 150.46 X 149.46	22537	8.831	513.1	22.8	
3	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	150.87 X 149.55 X 150.82	22563	8.741	531.7	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 03/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-04-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	149.27 X 149.00 X 151.92	22242	8.679	401.0	18.0	18.4
2	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	150.51 X 149.11 X 149.42	22442	8.699	408.8	18.2	
3	Drain Side Wall Concrete	M20	26/04/2022	03/05/2022	150.11 X 151.92 X 149.82	22804	8.993	429.6	18.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 24/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-04-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	149.74 X 151.76 X 149.37	22725	8.786	529.7	23.3	23.2
2	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	151.32 X 151.47 X 150.25	22921	8.144	515.5	22.5	
3	Drain Side Wall Concrete	M20	26/04/2022	24/05/2022	151.60 X 149.83 X 149.67	22713	8.176	542.2	23.9	

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Quality Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-05-28-19** **Date: 25-04-22**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-04-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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CIVIL Pro Sig..... Date..... BANGALORE

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-05-28-19** **Date: 25-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	01/05/2022	149.40 X 151.62 X 151.30	22652	8.748	288.4	12.7	12.6
2	PCC	M15	24/04/2022	01/05/2022	151.32 X 149.51 X 149.81	22624	8.405	279.5	12.4	
3	PCC	M15	24/04/2022	01/05/2022	151.94 X 151.78 X 151.70	23062	8.784	295.3	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 23/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	22/05/2022	149.34 X 151.89 X 151.25	22684	8.737	398.3	17.6	17.4
2	PCC	M15	24/04/2022	22/05/2022	151.66 X 151.85 X 150.40	23030	8.879	406.2	17.6	
3	PCC	M15	24/04/2022	22/05/2022	151.77 X 151.06 X 151.25	22926	8.776	390.6	17.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	01/05/2022	151.33 X 149.88 X 151.60	22682	8.789	280.5	12.4	12.7
2	PCC	M15	24/04/2022	01/05/2022	149.48 X 150.02 X 151.93	22424	8.729	287.3	12.8	
3	PCC	M15	24/04/2022	01/05/2022	149.76 X 149.50 X 151.27	22390	9.097	288.4	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 23/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	22/05/2022	149.99 X 149.88 X 149.61	22481	8.559	401.4	17.9	17.7
2	PCC	M15	24/04/2022	22/05/2022	151.12 X 149.46 X 151.73	22586	8.955	394.7	17.5	
3	PCC	M15	24/04/2022	22/05/2022	150.41 X 150.98 X 150.77	22710	8.724	405.0	17.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	01/05/2022	150.47 X 151.92 X 151.32	22859	8.891	289.8	12.7	12.6
2	PCC	M15	24/04/2022	01/05/2022	151.24 X 150.62 X 149.56	22781	8.129	289.5	12.7	
3	PCC	M15	24/04/2022	01/05/2022	150.14 X 150.78 X 150.91	22639	8.371	282.9	12.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-05-28-19** **Date: 23/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	22/05/2022	149.05 X 149.51 X 151.28	22283	8.292	388.6	17.4	17.3
2	PCC	M15	24/04/2022	22/05/2022	150.94 X 149.00 X 150.18	22490	8.647	394.2	17.5	
3	PCC	M15	24/04/2022	22/05/2022	151.12 X 150.75 X 149.67	22780	8.865	388.9	17.1	

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-28-19 **Date: 02/05/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.

Agency : Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/18/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	01/05/2022	149.10 X 150.75 X 150.51	22476	8.219	279.5	12.4	12.4
2	PCC	M15	24/04/2022	01/05/2022	151.04 X 151.70 X 150.34	22913	8.669	285.2	12.4	
3	PCC	M15	24/04/2022	01/05/2022	149.40 X 149.43 X 149.62	22324	8.214	273.6	12.3	

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ASSISTANT EXECUTIVE ENGINEER
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-05-28-19** **Date: 23/05/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repair and Maintenance of Roads and Drains in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division.
Agency	:	Sri.Nagoor Lokanadha Reddy, No:Flat.No:102, 1st Floor, No:02, MSNR, Enclave 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/18/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/04/2022	22/05/2022	151.85 X 150.86 X 150.67	22909	8.604	401.8	17.5	17.5
2	PCC	M15	24/04/2022	22/05/2022	151.05 X 151.12 X 149.30	22826	8.601	401.4	17.6	
3	PCC	M15	24/04/2022	22/05/2022	151.49 X 150.24 X 150.30	22760	8.272	396.7	17.4	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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